

## Agenda

- Existing Conditions and Traffic Operations
- Project Goals
- Proposed Alternatives
  - Intersection Concepts
    - Revised Signalized Intersection concepts
    - Roundabout concepts
  - Future Traffic Operations
- Discussion and Next Steps





# **Existing Conditions and Traffic Operations**







### **Existing Conditions and Traffic Operations**

- 5-way Intersection
  - Four (4) Signalized Approaches: North Ave, Ethan Allen Parkway, Driveway to Ethan Allen Park
  - One (1) Unsignalized Approach: Little Eagle Bay



The sharply skewed intersection of North Ave and Ethan Allen Pkwy



Drive access to Little Eagle Bay is unsignalized





## **Existing Conditions and Traffic Operations**



Signalized driveway from Ethan Allen Park



Alignment of Ethan Allen Parkway and Little Eagle driveway



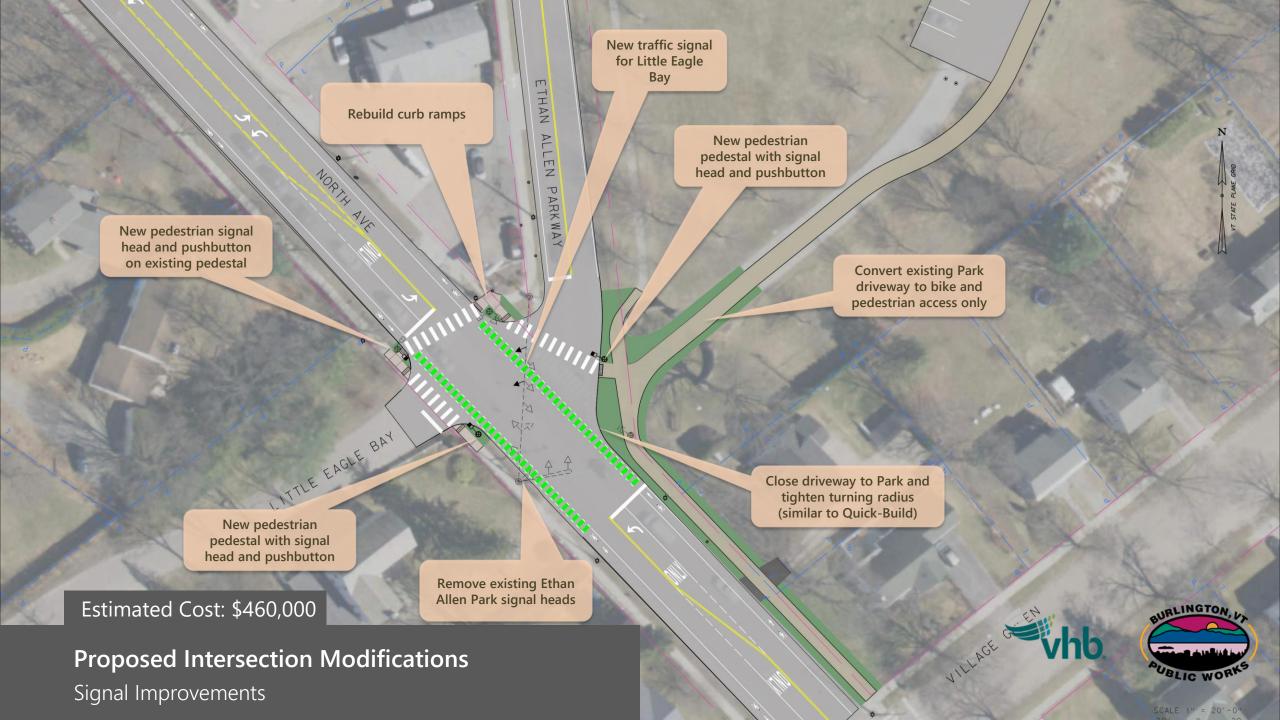


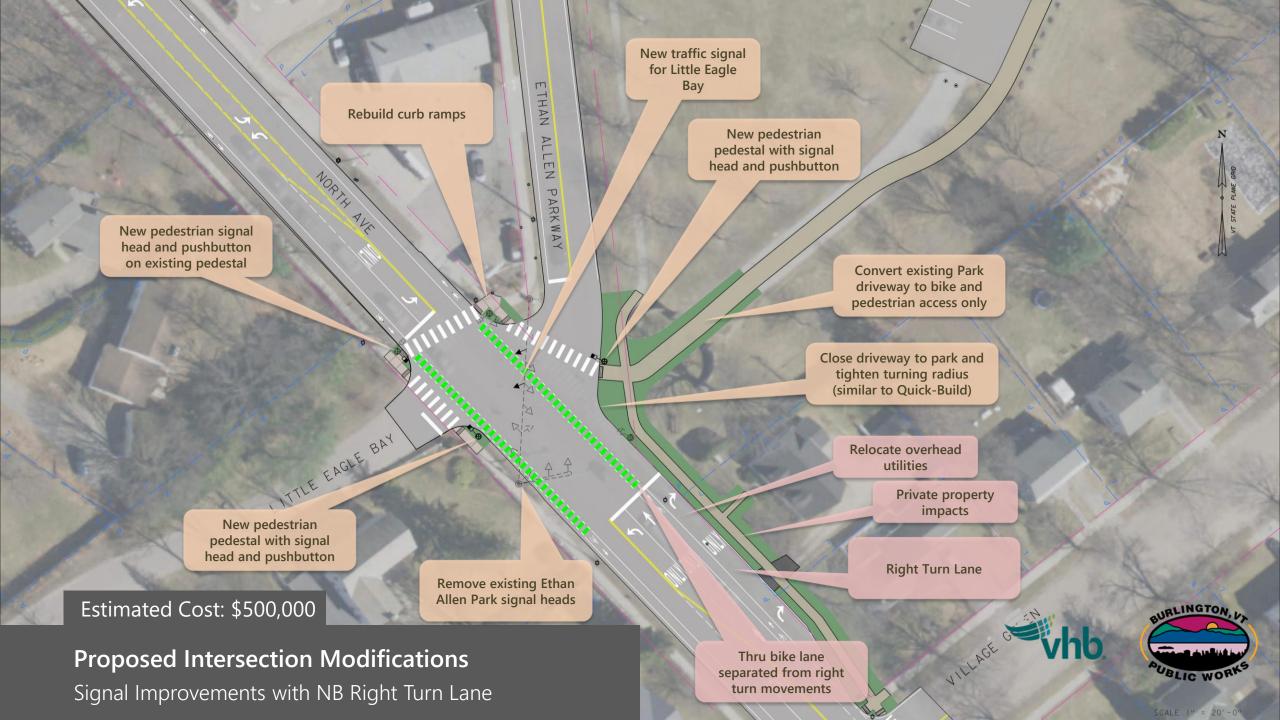
#### **Project Goals**

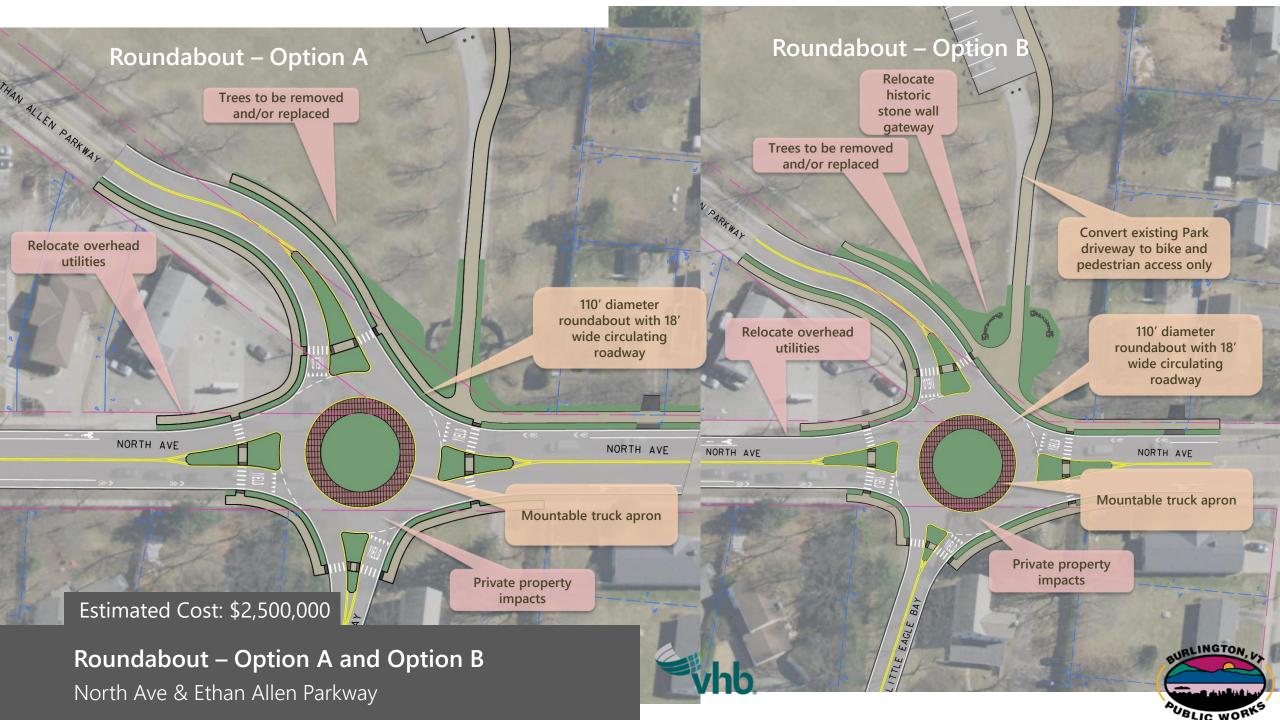
- Evaluate intersection improvements as recommended in the North Avenue Corridor Study
- Improve intersection operations along the corridor
- Reduce vehicle queuing
- Improve bicycle and pedestrian accommodations
- Improve safety
- Reduce speeds of turning vehicles











# **Future Traffic Operations**

		2024 No Build		2024 Signal Modifications		2024 Signal Modifications w NB Right Turn Lane		/			
Peak Hour	Approach	Queue	Delay	LOS	Queue	Delay	LOS	Queue	Delay	LOS	
	EB from Little Eagle Bay	0	0.2	Α	0	1.4	Α	0	1.7	Α	_
	WB from Park Entrance	7	62.0	Ε							
Wookday AM	NB from North Avenue	214	8.6	Α	237	13.4	В	202	11.3	В	
Weekday AM	SB from North Avenue	510	11.9	В	473	17.2	В	473	17.2	В	
	SW from Ethan Allen Parkway	221	67.3	Ε	155	34.9	С	155	34.9	С	
	Overall Intersection		17.9	В		18.0	В		17.4	Α	
	EB from Little Eagle Bay	2	0.3	Α	0	1.4	Α	0	1.0	Α	_
Weekday PM	WB from Park Entrance	0	1.6	Α							
	NB from North Avenue	1234	18.8	В	1326	33.0	С	705	19.0	В	
	SB from North Avenue	281	7.3	Α	353	11.6	В	255	12.1	В	
	SW from Ethan Allen Parkway	81	25.2	С	209	148.8	F	140	97.5	F	_
	Overall Intersection		15.5	В		33.7	С		22.7	С	_

<sup>\*</sup> Queue is expressed in feet





<sup>\*\*</sup> Delay expressed in seconds per vehicle, per Synchro

<sup>\*\*\*</sup> LOS - Level of service, per Synchro

# **Roundabout Operations**

		2024 Roundabout			
Intersection	Peak Hour	Delay	LOS		
North Ave / Ethan Allen Pkwy / Little Eagle Bay	Weekday AM	4.6	Α		
	Weekday PM	3	Α		

<sup>\*\*</sup> Delay expressed in seconds per vehicle, per Synchro





<sup>\*\*\*</sup> LOS - Level of service, per Synchro

# **Alternatives Comparison**

Alternative	No-Build	Signal Modifications Only	Signal with Northbound Right Turn Lane	Roundabout
Improve intersection operations along the corridor	No change	No changes overall	No changes overall	Improves operations
Reduce vehicle queuing	No change	No queue reductions	Modest improvements	Queue improvements
Improve bicycle and pedestrian accommodations	No change	Reduced pedestrian crossing distance	Reduced pedestrian crossing distance	Reduced pedestrian crossing distance + improve ped visibility
Improve safety	No change	Pedestrian improvements across Ethan Allen Parkway	Thru bike lane separated from right turns	Improvements for all modes
Reduce speeds of turning vehicles	No change	NB right turns	NB right turns	Reduces speed in all directions
Cost / Impacts	No cost	\$460,000 estimated	\$500,000 estimated	\$2,500,000 estimated

